



ACEC/NCDOT BRIDGE SUBCOMMITTEE

Minutes of November 3, 2008 Meeting
Structure Design Conference Room B
November 3, 2008
10:30 am

Attendees

Greg Perfetti – NCDOT Structure Design Unit
Allen Raynor – NCDOT Structure Design Unit
Lonnie Brooks – NCDOT Structure Design Unit
Dan Holderman – NCDOT Bridge Management Unit
Peter Graf - LPA
David Simpson – Simpson Engineers
Jason Doughty – PB
David Peterson – RK&K
Jim Barcomb – URS

- 1) **Review of Previous Meeting Minutes** - Peter Graf presented a copy of the draft meeting minutes from the August meeting for comment. Greg Perfetti provided several comments and the meeting minutes will be revised. The final minutes will be forwarded to Allen Raynor for posting on the NCDOT Structure Design Unit website.
- 2) **Bridge Design Workshop Series** – David Simpson stated that he met with Domenic Coletti regarding potential topics and scheduling of the next workshop. Graf asked if the recent suspension of training activities by NCDOT would effect attendance at future lunch seminars. Lonnie Brooks will take an internal “straw poll” of Structure Design Unit staff to see if they are still interested in the seminars if NCDOT does not reimburse them for the cost. Subsequent to the meeting, Brooks responded to Graf that NCDOT interest in the seminars was high and many staff would still attend regardless of reimbursement.

It was decided that the Load Rating Study would be the next topic for the Bridge Design Workshop series. Simpson will schedule this seminar for February 2009. Speakers will be Satrajit Das of URS and Dan Holderman (tentatively).

- 3) **Transformation Update** –
 - a. Modifications to Subcommittee – Graf asked if the recent changes in the NCDOT Organizational Structure warranted a change in the makeup of the subcommittee. It was discussed and decided that other modes of transportation are represented by those already serving on the subcommittee and, therefore, no additional members were needed. With Scott Blevins new position and duties, it was suggested that the subcommittee invite Blevins to come to the February meeting to discuss his new position as it relates to consultant procurement.



- 4) **Training Opportunities** – The LRFD Seismic Design Workshop planned for Spring of 2009 has been cancelled due to NCDOT suspension of training. The LRFR Workshop scheduled for November 19, 2008 is full and no spots are available for PEF firms. Simpson suggested that ACEC tape the seminar to allow PEF firms to view the seminar. Raynor to check with Tom Saad to see if he minds being taped. Graf to check with Tia Jones to check on the availability of videotaping equipment.
- 5) **Structure Policy Memos** – Three new policy memos have been issued:
- a. Optional Bolted Field Splice (September 12, 2008)
 - b. Standard 1” thick plain elastomeric pad (October 1, 2008) – these are to be used for cored slabs / box beams.
 - c. Overlay Thickness and Barrier Rail Details (October 6, 2008) – provides overlay and barrier rail detailing information for cored slab and box beam bridges.
- 6) **Anticipated PEF Advertisements** – Until further notice, no PEF advertisements will be released by NCDOT Structure Design Unit. Graf asked Holderman of the status of Bridge Management Unit work. Holderman stated that Limited Service Contracts were recently selected. Seven firms were selected for a 2 year term. Many of these firms have continuing work on NCMA projects. Inspection and repair work will continue as necessary when workload exceeds internal capacity.
- 7) **Technical Discussion**
- a. LRFD Foundation Design Implementation – Structure Unit and Geotech Unit have met and are close to releasing the guidelines.
 - b. Standard Bridge Deck Designs – LRFD overhang criteria – David Peterson stated that his experience on a recent project has been that the barrier impact load requirement in LRFD exceeds the capacity of the deck overhang when using the standard deck design in the NCDOT Structure Design Manual. Perfetti stated that if NCDOT has taken exception to the barrier impact load in the deck overhang design, this should be stated in Chapter 2 of the Design Manual. NCDOT will verify if an exception has been taken and not noted. Perfetti asked Peterson to provide his calculations to help NCDOT review the issue.
 - c. Load Ratings – Peterson asked if both the interior and exterior girder load ratings are required to be recorded on the Standard Load Rating sheet to be included in the plans. Perfetti stated that the load ratings recorded on the Load Rating sheet in the plans should be based on the lowest rating of any girder. The comment section can be used to identify which girder controls the rating.
- Peterson asked when to implement the Interstate rating sheets versus non-Interstate rating sheets. Perfetti stated that the Interstate rating sheets should only be used on Interstate roadways, not all NHS routes.



Further discussion of Load Ratings on prestressed concrete beam bridges was related to the Service III rating check. It was stated that the Service III ratings should be reported, but the final rating should be based on Strength and not the Service III rating. Experience has shown that several of the NC Legal Trucks will rate less than 1.0 under the Service III condition.

8) Other Topics – Lonnie Brooks would like to update his list of contacts for PEF firms. This list is used to distribute policy memos, design manual updates, etc. Graf will request that all firms who are interested in being on the list send an email to Brooks with their contact info.

9) Next Meeting – 10:30am Monday, February 2nd.